

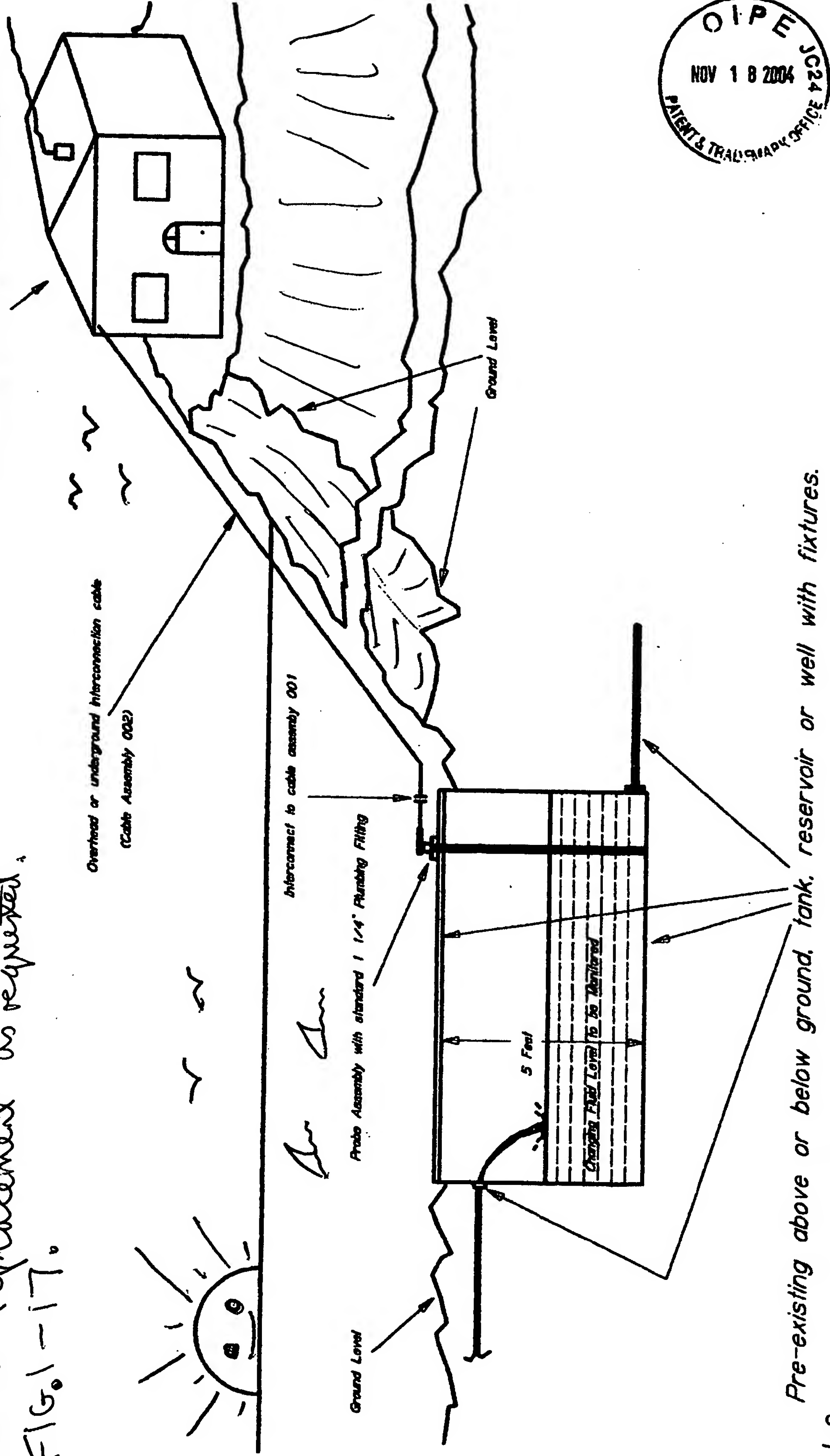
These are copies of drawings that were received by USPTO already has on file but have been marked "replacement" as requested.  
FIG. 1-17.

Replacement

# REMOTE MONITORING STATION

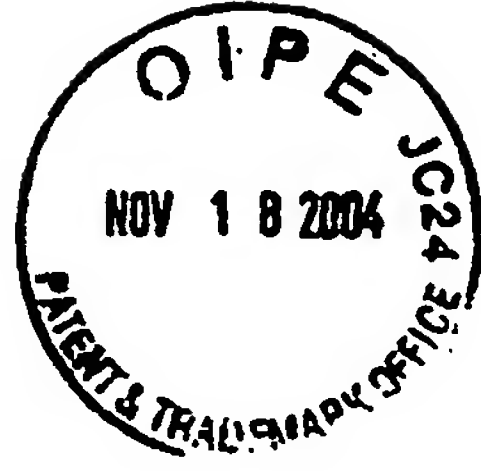
Dwelling, Farm house, Office, Laboratory, Data control unit, etc.

1 The Electronics Box, EBI, Shall Be Mounted Conveniently Near 1



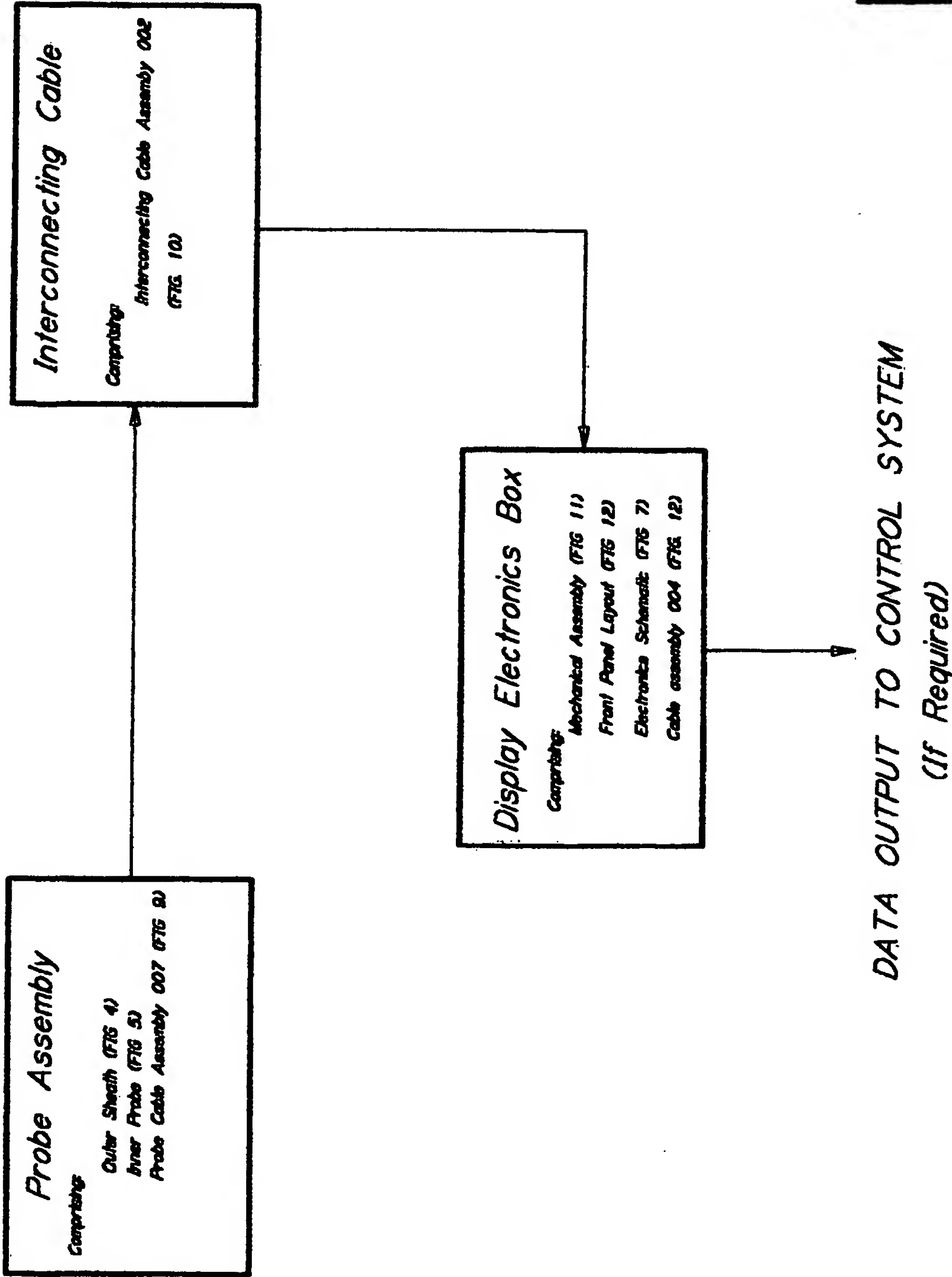
Pre-existing above or below ground, tank, reservoir or well with fixtures.

Note: - These drawings Fig 1-17 originals were received by USPTO and described in "Amendments to Drawings" dated Oct 18<sup>th</sup> 2004.



Designed Albert H. Green	Date: 10/21/2004
Approved: [Signature]	Project: Field Level
Draw # 0032903	FIG. 1

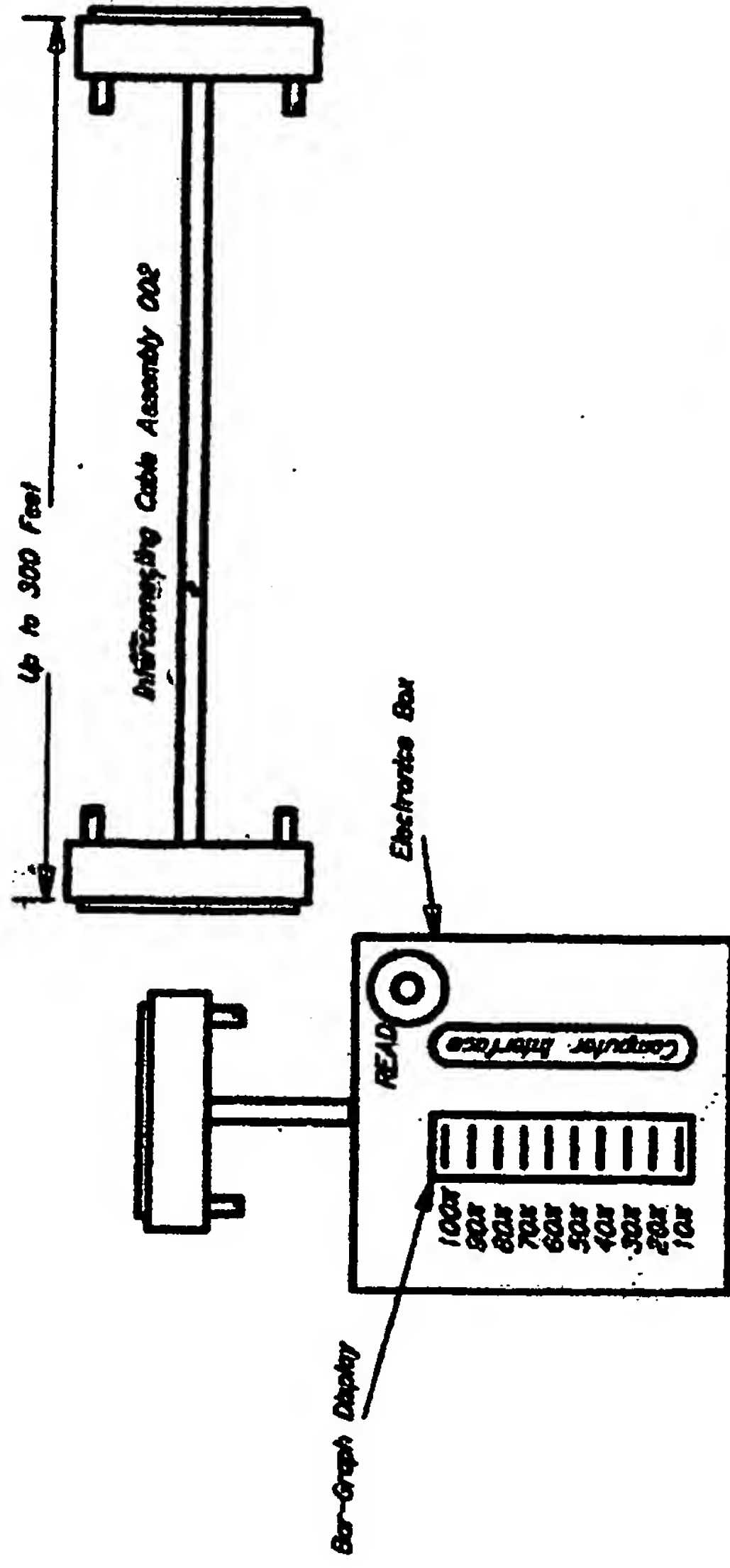
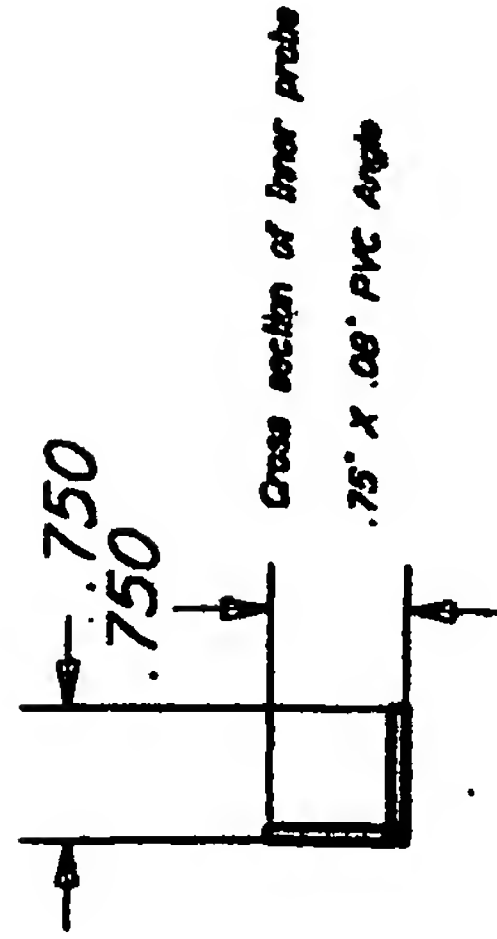
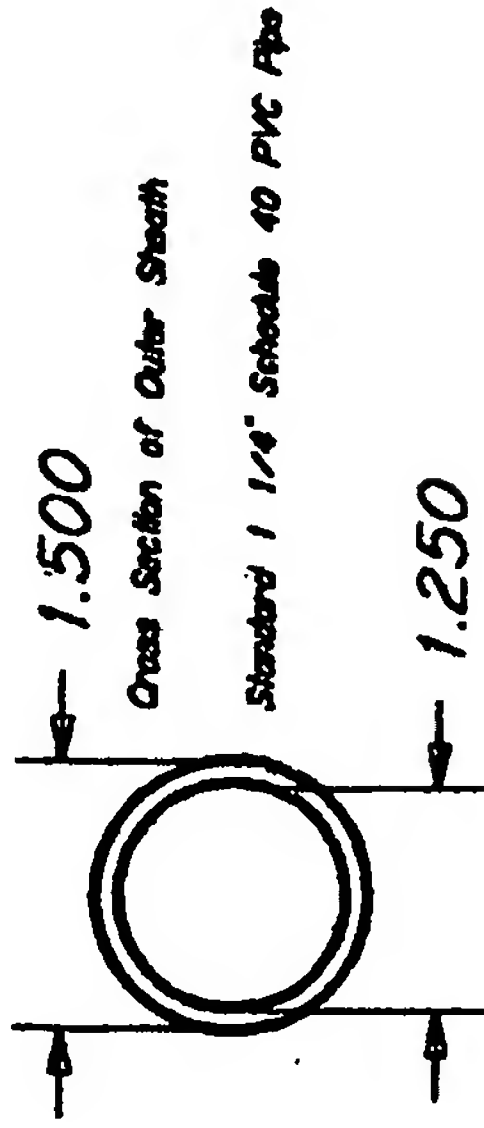
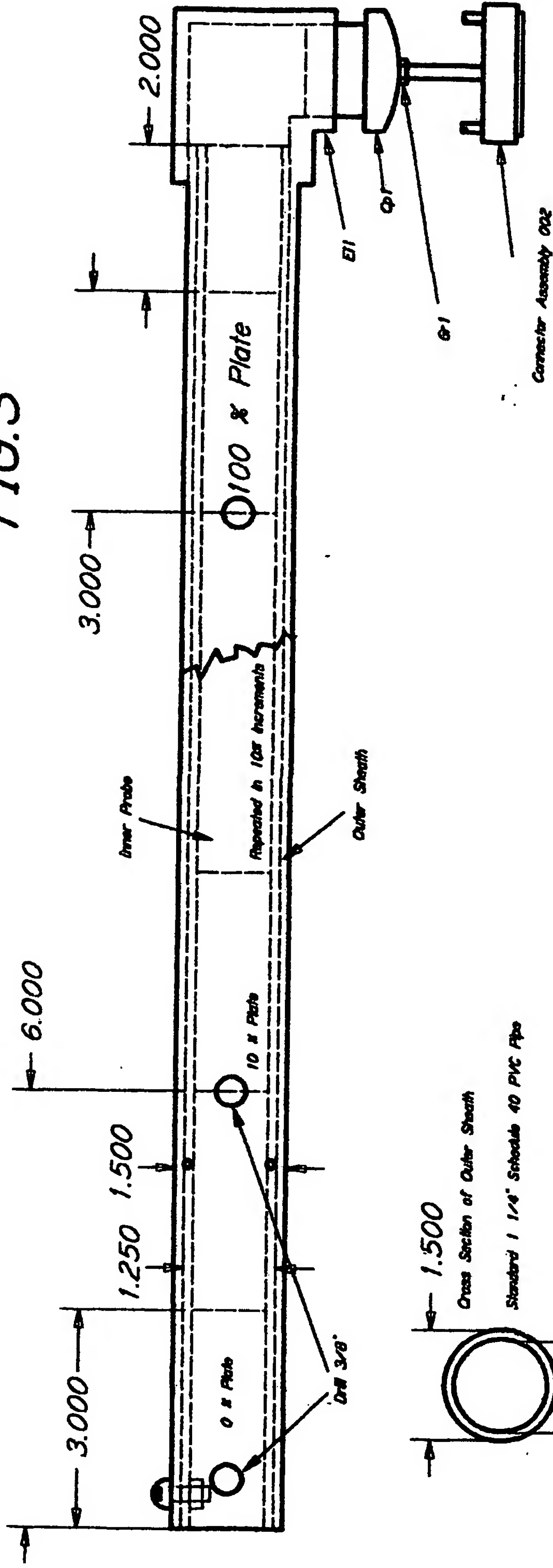
replacement



Designed	Date: 10/21/2004
Allen H. Smith	
Approved	Project: Fluid level
Drawn: 0035001	FIG. 2

replaced

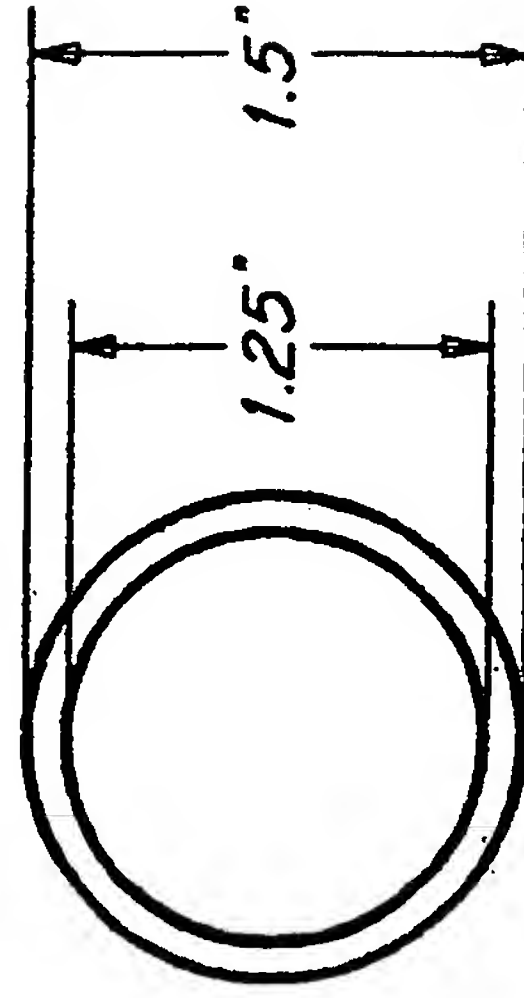
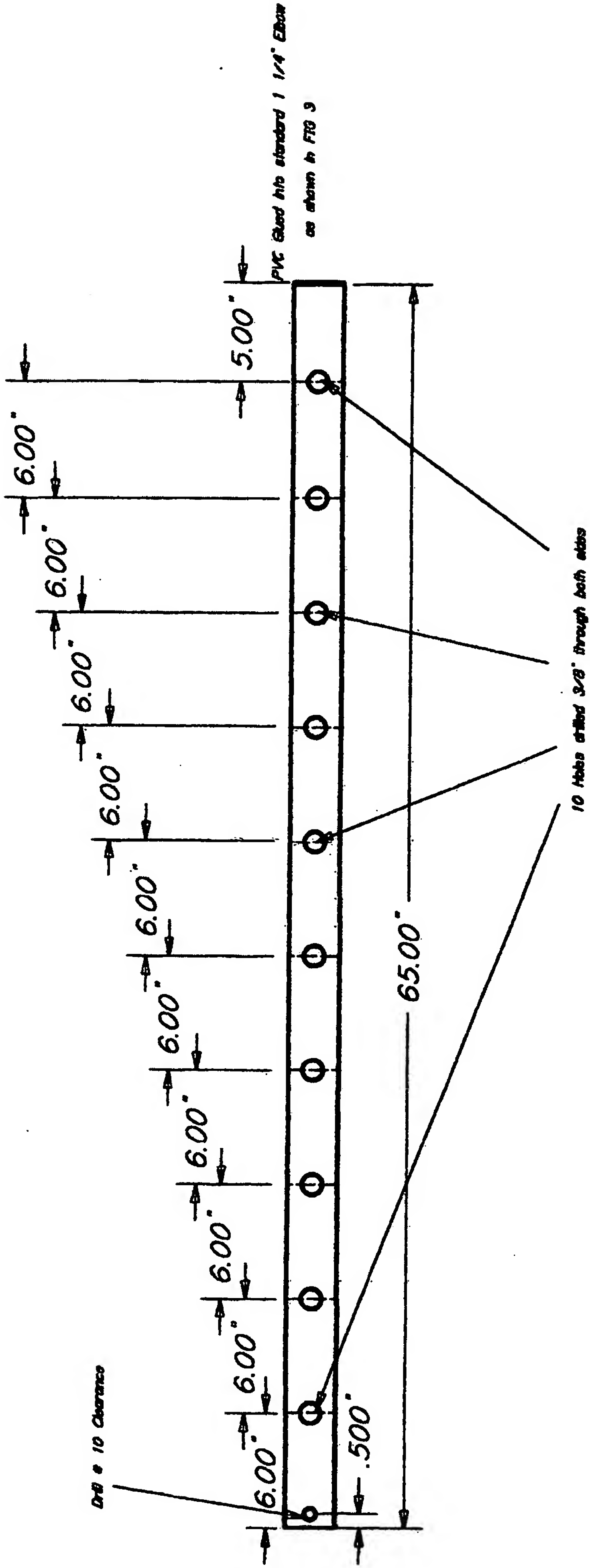
FIG. 3



Prototype Electronic Box 5.25" x 3.25" approx

Designed	FIG. 3	Rev. 0
AI Green	General Assembly	
E. C. H. H. H. H. H.		

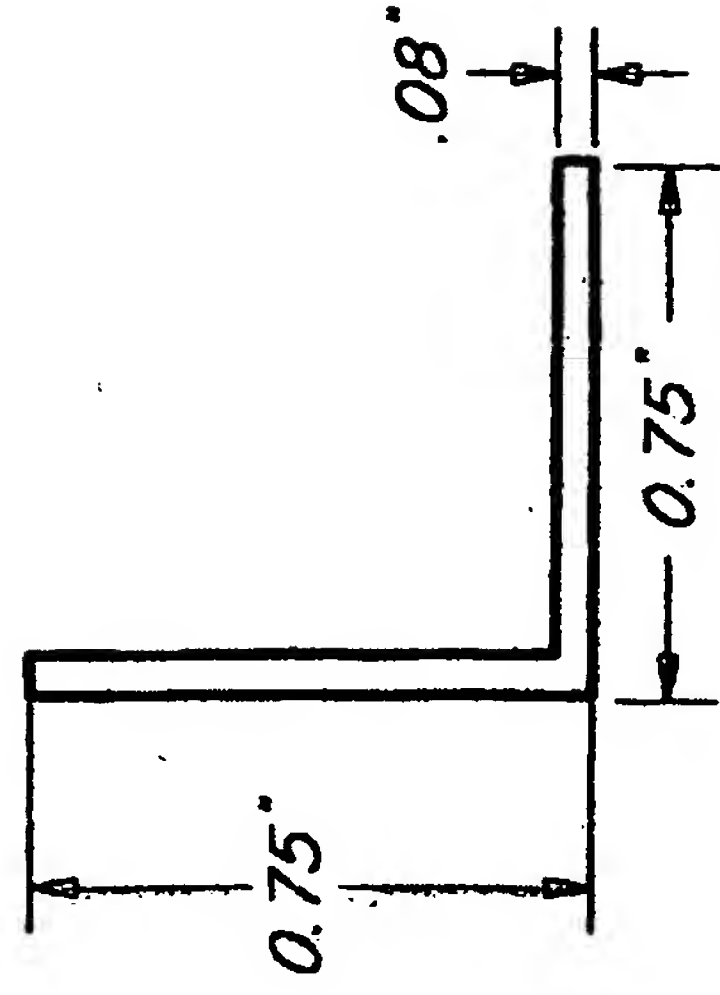
replaced



Outer Sheath Cut From Standard  
Schedule 40 1 1/4" PVC Pipe  
Drilled as Shown


Cross Section Approx Dimensions

Designed	Date: 10/21/2004
Allen H. Green	Project: Fluid level
Approved	FIG. 4
Drawn: 0032004	

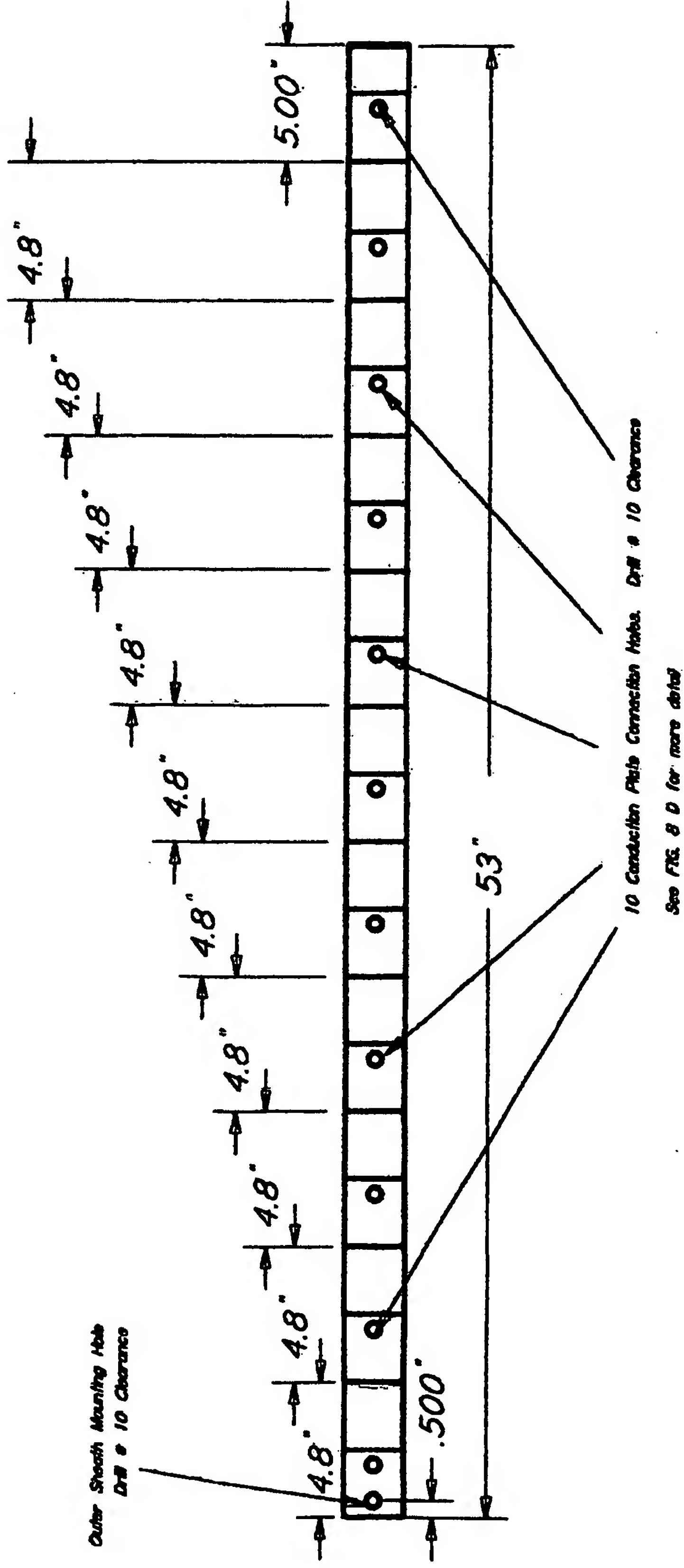
[illegible]

*Cross Section Approx Dimensions*

*Inner Probe Cut From Standard  
3/4" X .08" PVC Angle  
Drilled as Shown*

Designed Allen - H. Smith	Date: 10/21/2004
Approved 	Project: Fluid level
Dwg # 0032005	FIG. 5

replacement



The Probe can be made to match almost any tank depth. (Spacing = 10% of total depth)

This Diagram Shows How the Dimensions of the Inner Probe Would Change for a 4 Foot Version.

The Outer Sheath Would Follow Accordingly ie 4.8" spacing instead of 6"

Designed	Date: 10/21/2004
Allen H. Green	Project: Fluid Level
Approved	FIG. 6
Drawn: 0032005	

	0	1	2	3	4	5	6	7	8
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Shield and Ground Connected to pin 11 (see cable assembly 004 FIG. 12)

The schematic diagram illustrates the internal wiring of the Display Electronics Box. It shows a series of normally open switches (WL10 through WL100) connected to a common ground line. Each switch is associated with a specific liquid level measurement point. The circuit includes a 9V battery (V1) and a push-button (PB1) labeled "READ". Resistors (R1 through R31) are used for current limiting and signal conditioning. LEDs (LED1 through LED10) provide visual feedback for each measurement point. Transistors (Q1 through Q6) drive the LEDs and other components. The circuit is divided into sections A through G, corresponding to the grid labels at the top.

**Notes:**

- Normally Open Switches WL10 - WL100 represent the incremental fluid levels 10% - 100% being reached. (70% full is being used for demonstration purposes). The associated pin numbers 1 - 10 refer to interconnecting cable 004 detailed in FIG 12
- R31 Represents the maximum liquid level resistance for each increment that can be tolerated for this version and is included in the schematic for demonstration purposes only (SEE ELECTRONIC CIRCUIT THEORY OF OPERATION)
- Connection detail of Optional Data Output J1 is detailed in FIG 13.
- A complete parts list is shown in Table 1

Title: Fig. 7			
FIG. 7 Display Electronics Box Schematic.			
Designed by:	Alan Green	Document N°	0007
Checked by:	[Signature]	Date	Oct 12 2004
		Revision	D
		Size	A

1. Normally Open Switches WL10 - WL 100 represent the incremental fluid levels 10% -100% being reached. (70% full is being used for demonstration purposes)  
The associated pin numbers 11 -10 refer to interconnecting cable 004 detailed in FIG 12
2. R31 Represents the maximum liquid level resistance for each increment that can be tolerated for this version and is included in the schematic for demonstration purposes only (SEE ELECTRONIC CIRCUIT THEORY OF OPERATION)

### 3. Connection detail of Optional Data Output J1 is detailed in FIG 13.

**4. A complete parts list is shown in Table 1**

**Title: Fig 7**

**FIG. 7 Display Electronics Box Schematic.**

**Designed by: Alan Green**

**Checked by:**

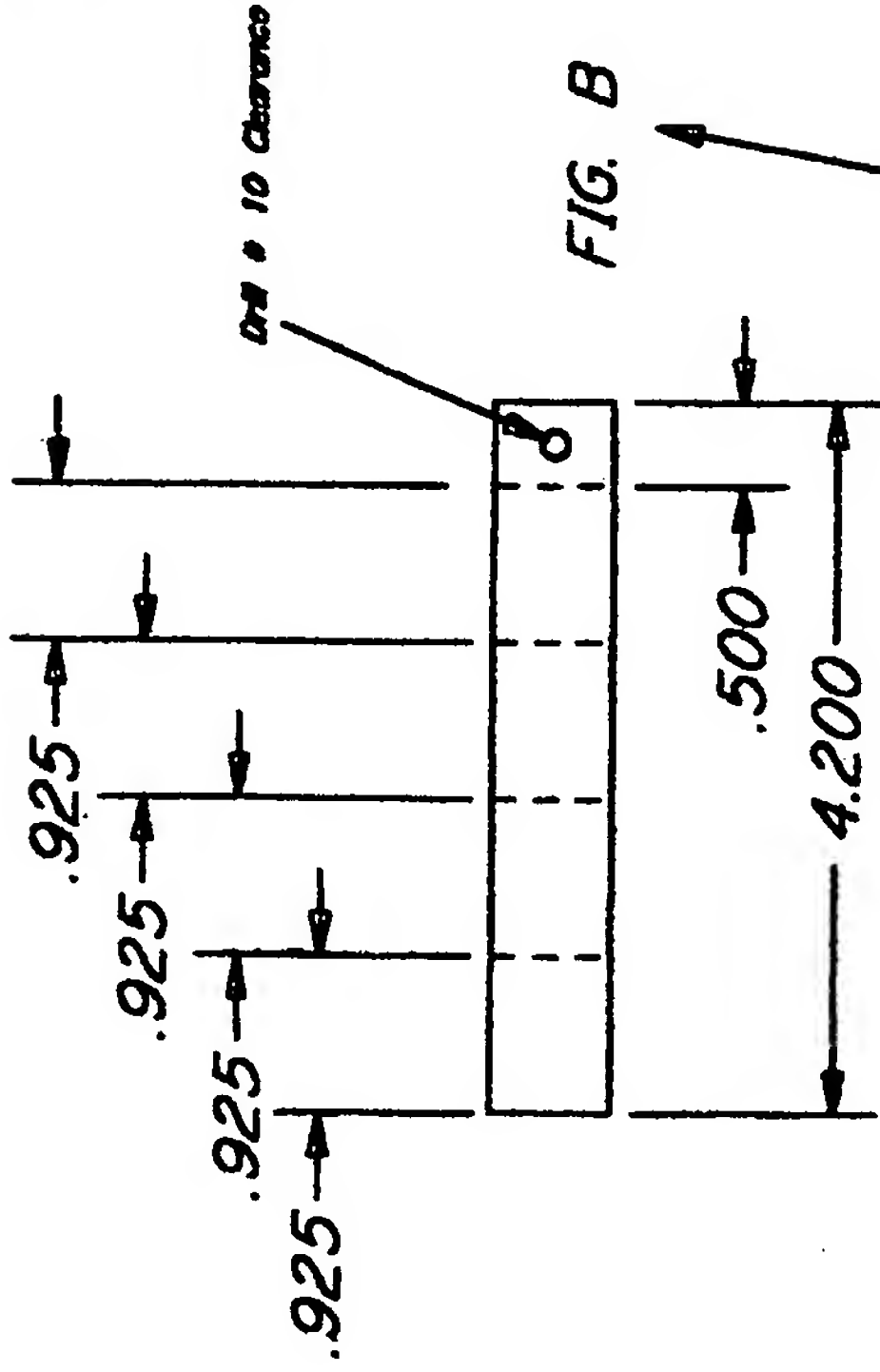
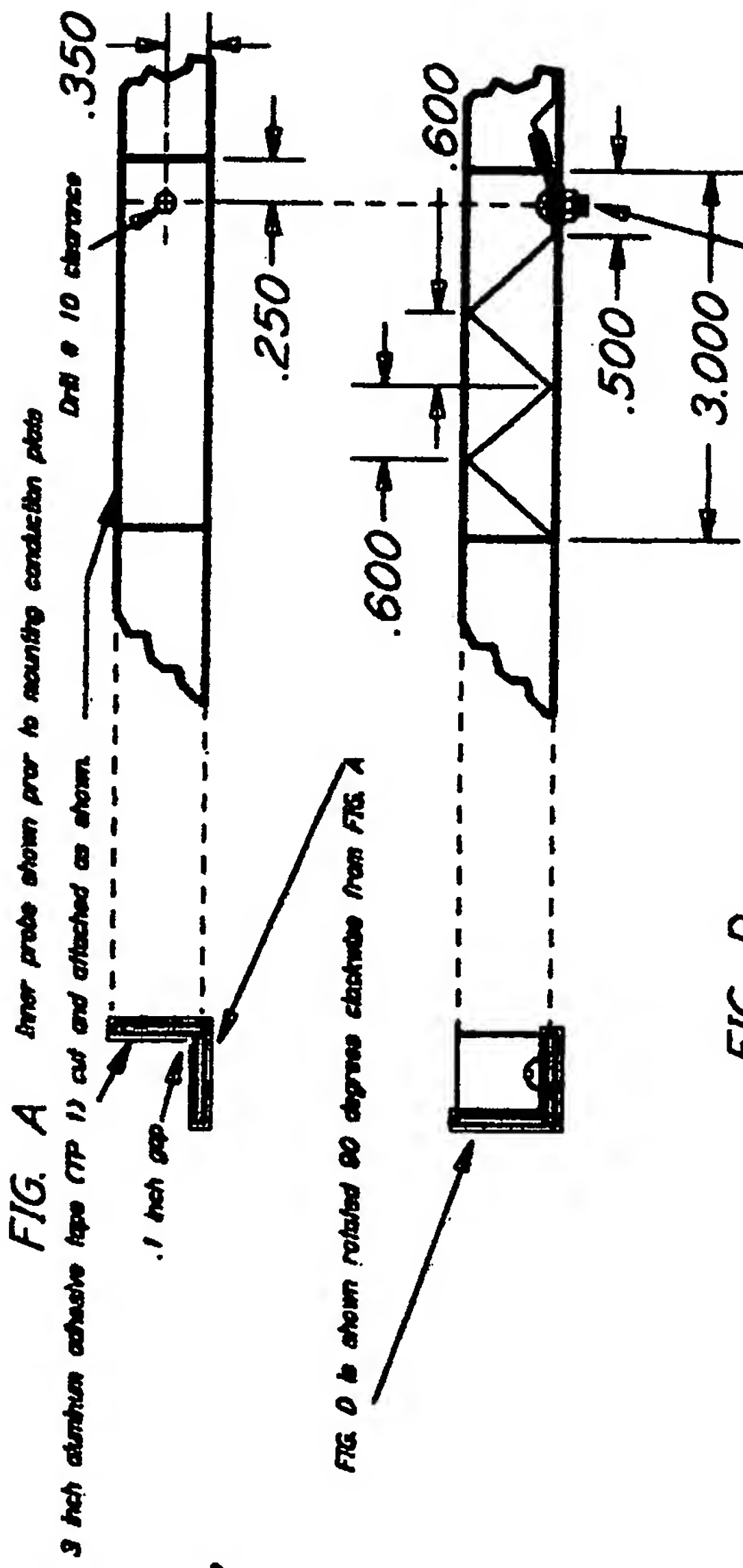
Revision D

Date Oct 12 2004

Size A



replacement

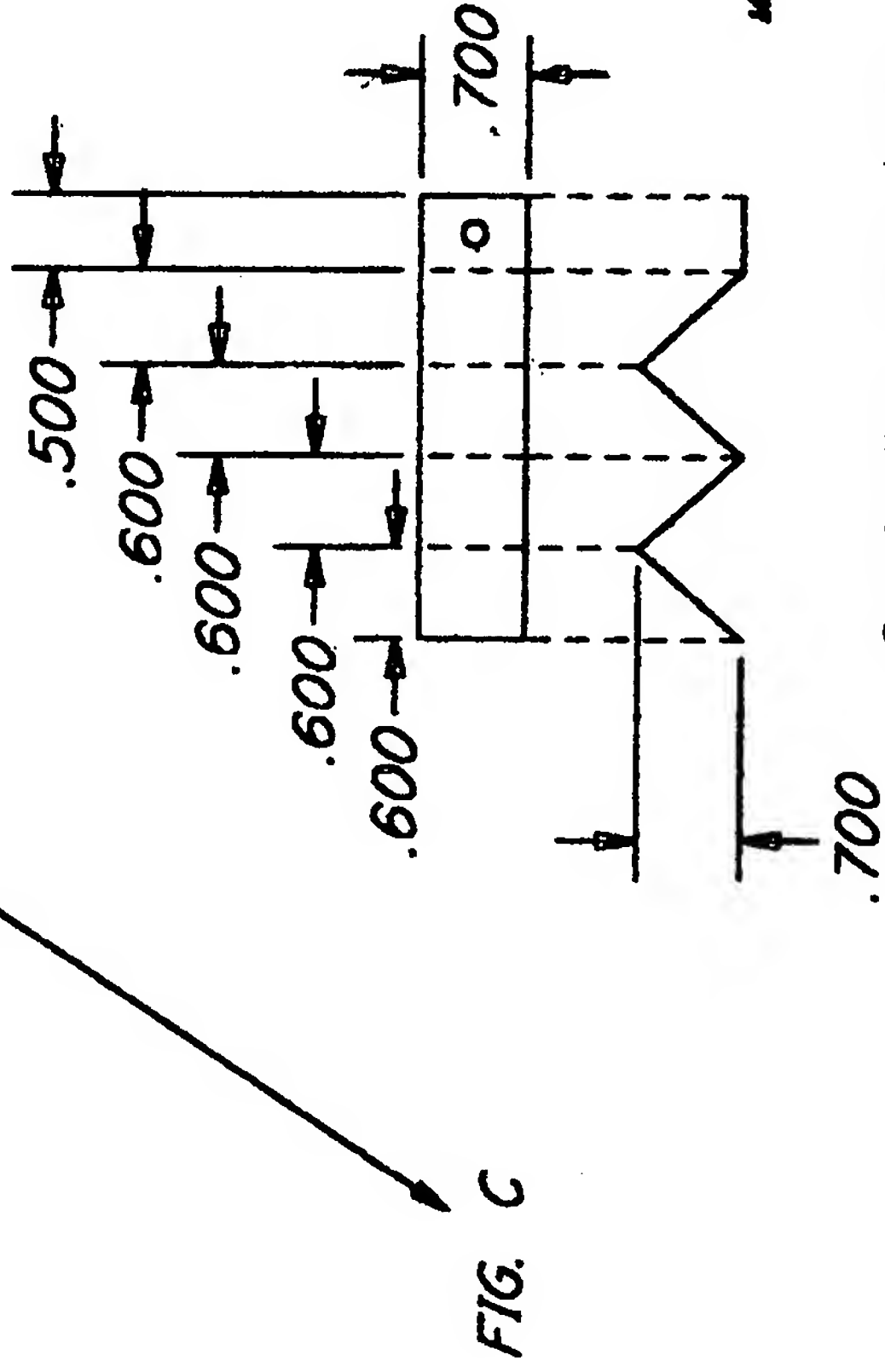


30 Gauge Aluminum Sheet

Cut, marked and drilled as shown in FIG. B

Band as shown in FIG. C

**FIG. D**



Crimp Terminal (CR 1 - 10)

Wire connection (See FIG. 9 for wiring detail)

Stainless Steel Lockwasher (LX 1 - 10)

Stainless Steel Nut (N 1 - 10)

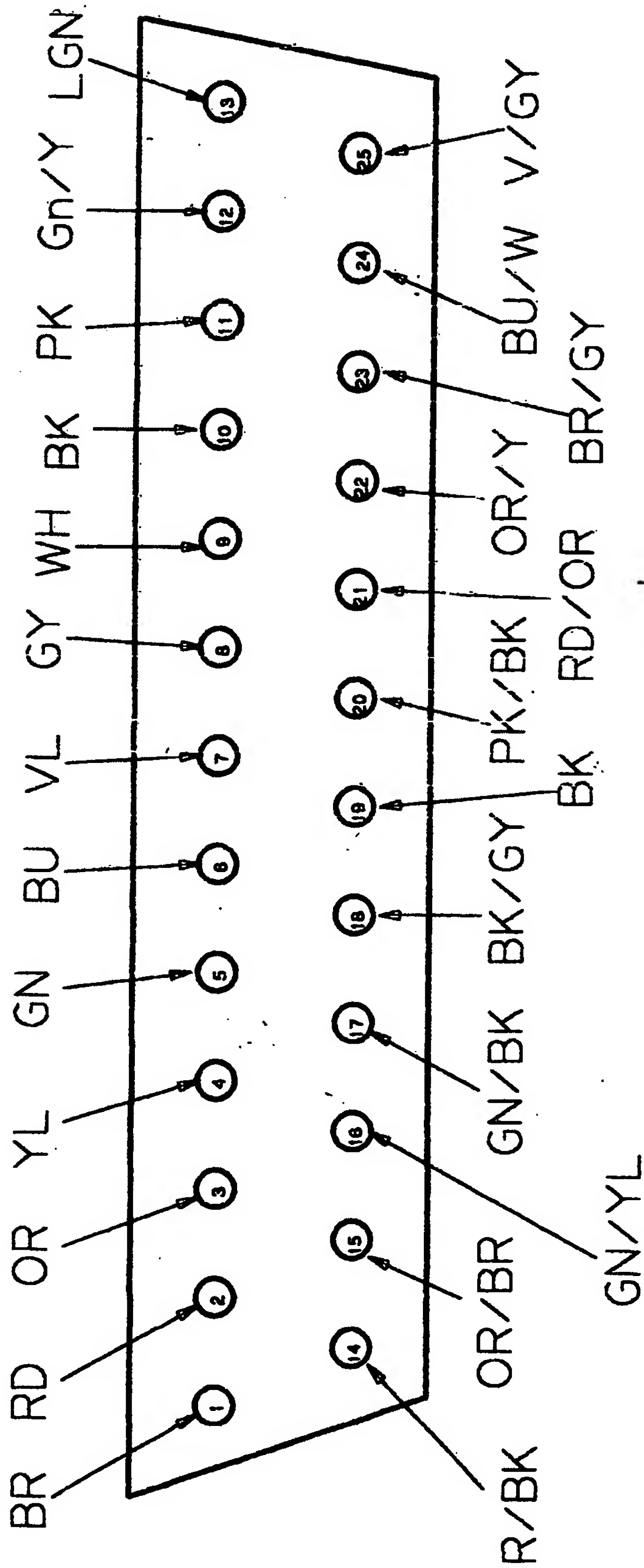
Stainless Steel Bolt (BLT 1 - 10)

Conduction Plate (CP 1 - 10)

Designed	Date: 10/21/2004
Allen H. Green	Project: Fluid level
Approved	FIG. 8
Draw # 0032001	



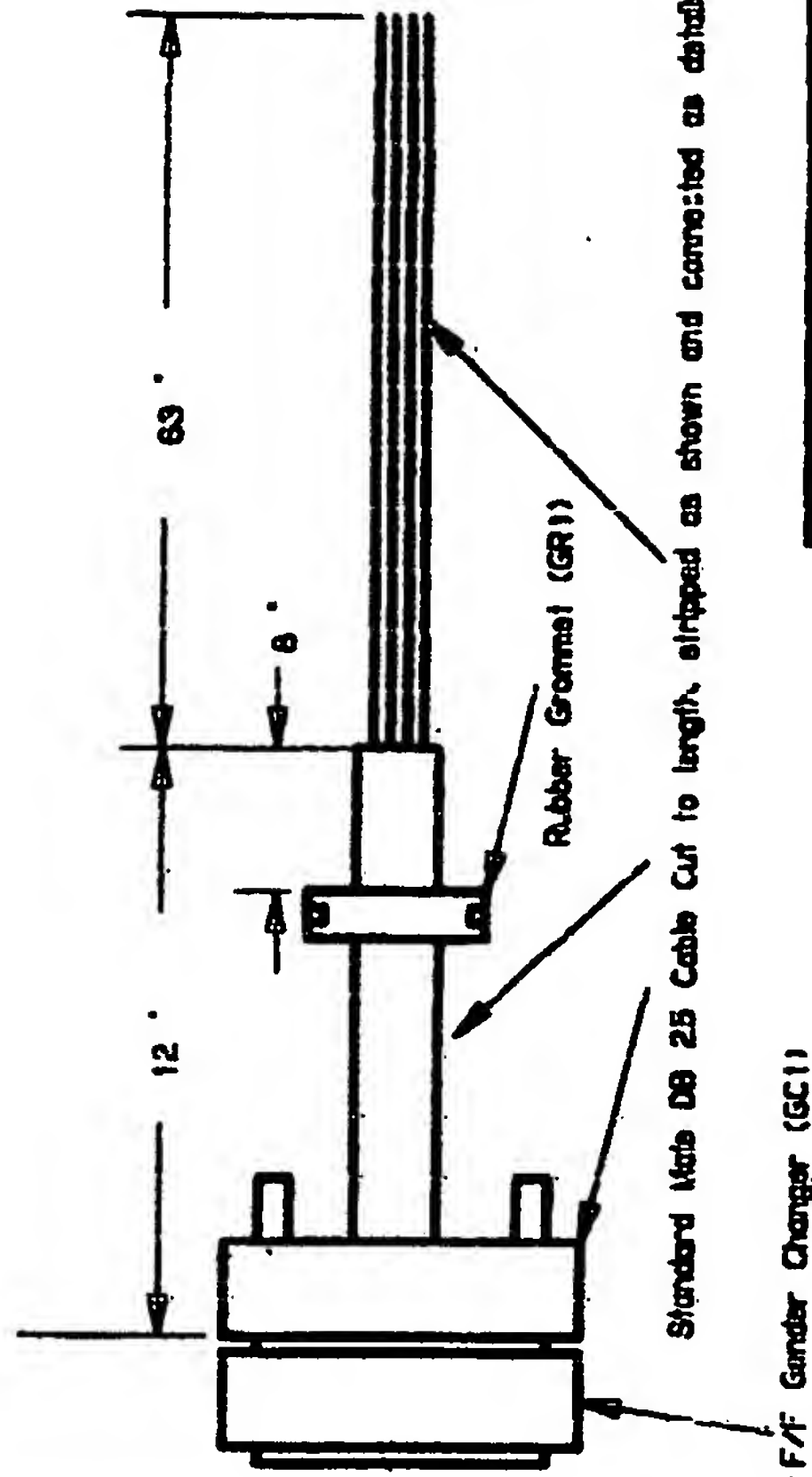
replacement



- Pin 1 = 10%
- Pin 2 = 20%
- Pin 3 = 30%
- Pin 4 = 40%
- Pin 5 = 50%
- Pin 6 = 60%
- Pin 7 = 70%
- Pin 8 = 80%
- Pin 9 = 90%
- Pin 10 = 100%

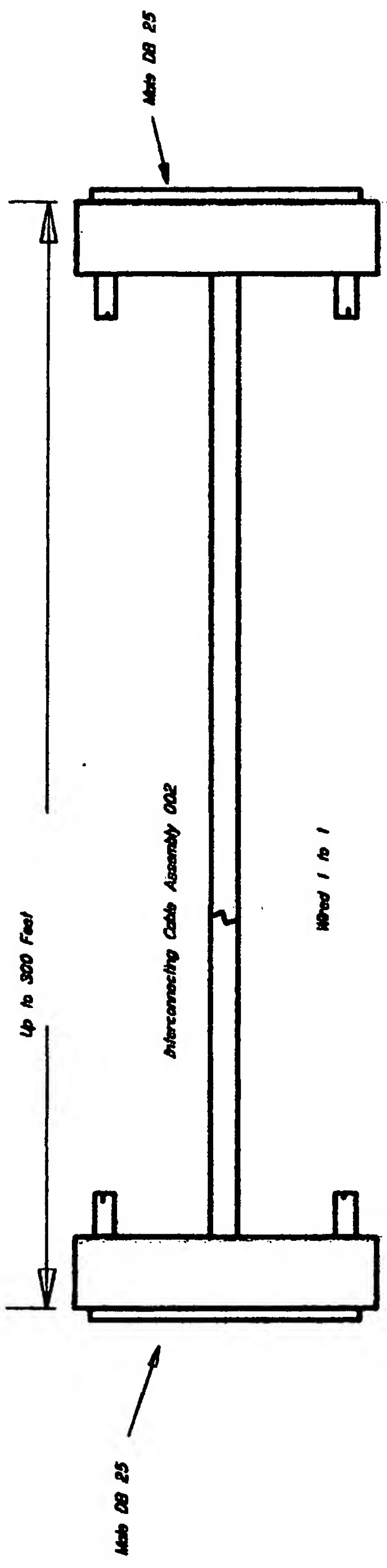
Refer to FIG. 5 for mechanical connection detail

Pin 11 = Gnd 0%



Designed Alan H. Green	Date 10/22/2024
Approved <i>[Signature]</i>	Project Fluid Level
Draw # 0032008	FIG. 9

replacement

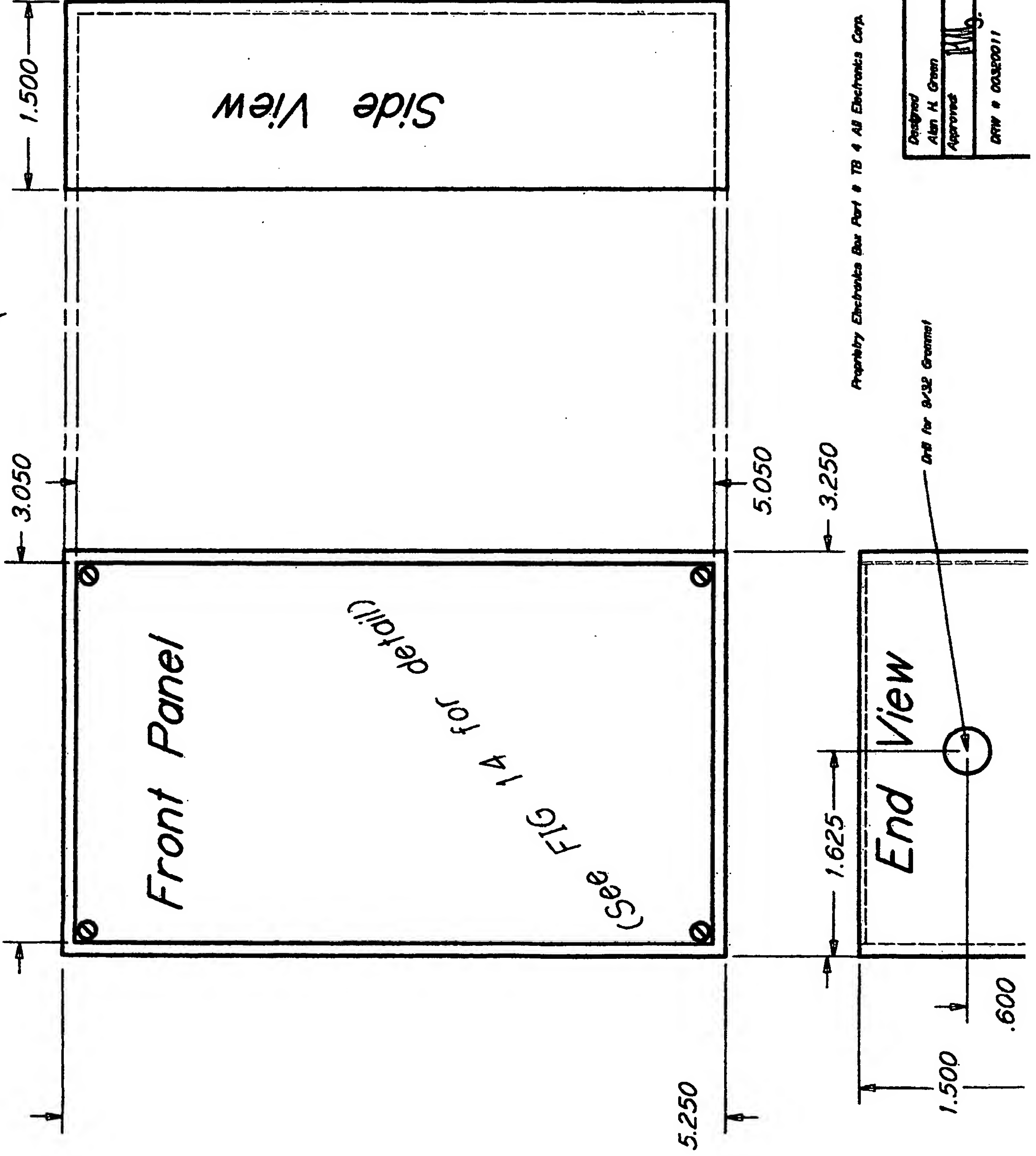


Standard DB 25 Cable Wired 1 to 1

The system has been field tested with 300 Feet of interconnecting cable.

It is anticipated that it will work successfully at distances much greater than this if required. Cable is expensive so the length will generally be tailored to individual requirements.

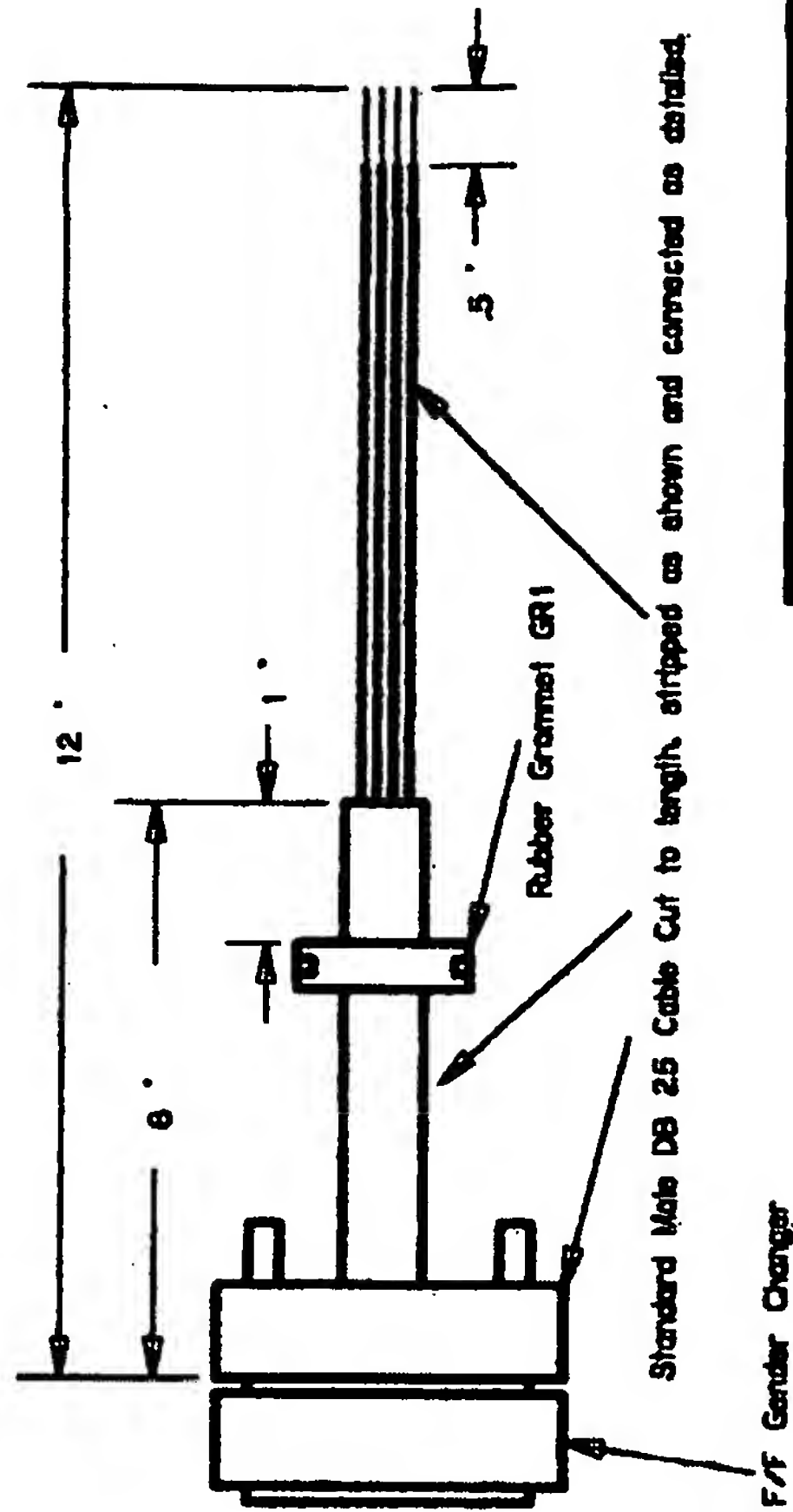
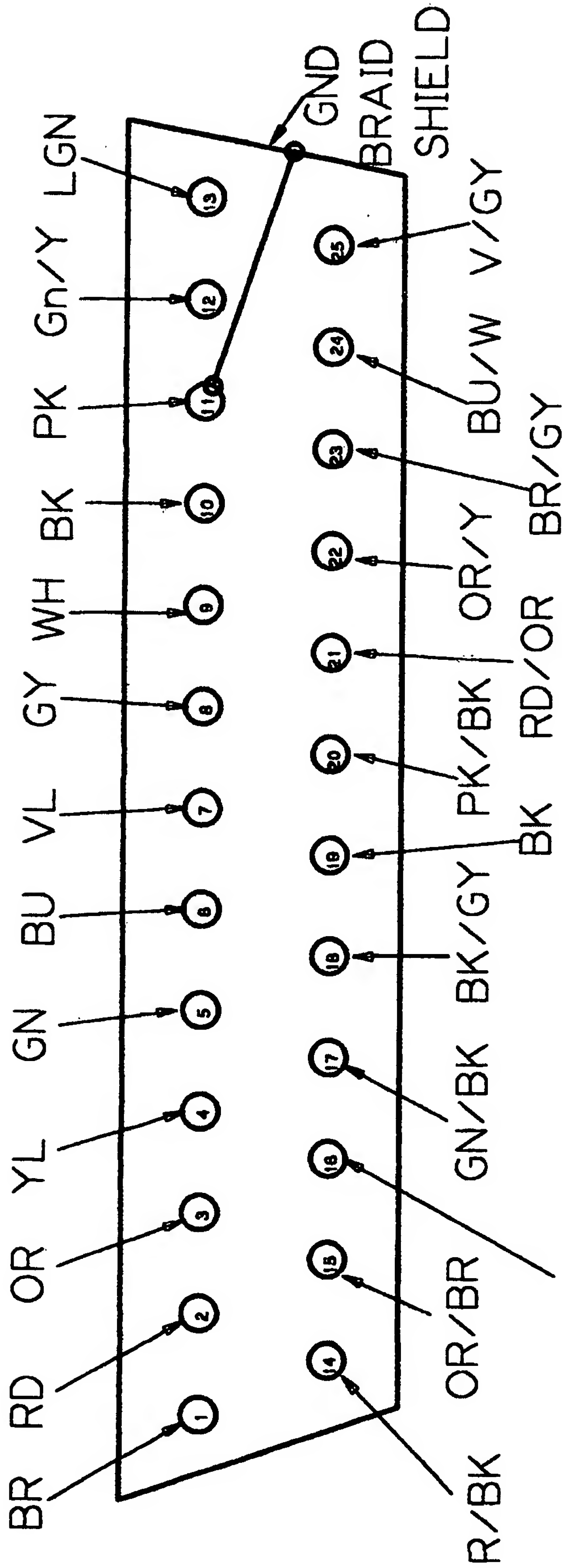
replacement



Proprietary Electronics Box Part # TB # AB Electronics Corp.

Designed Alan H. Green	Date: 11/08/2004
Approved [Signature]	Project: Fluid Level
DRW # 00350011	FIG. 11 Electronics Display Box

replaced



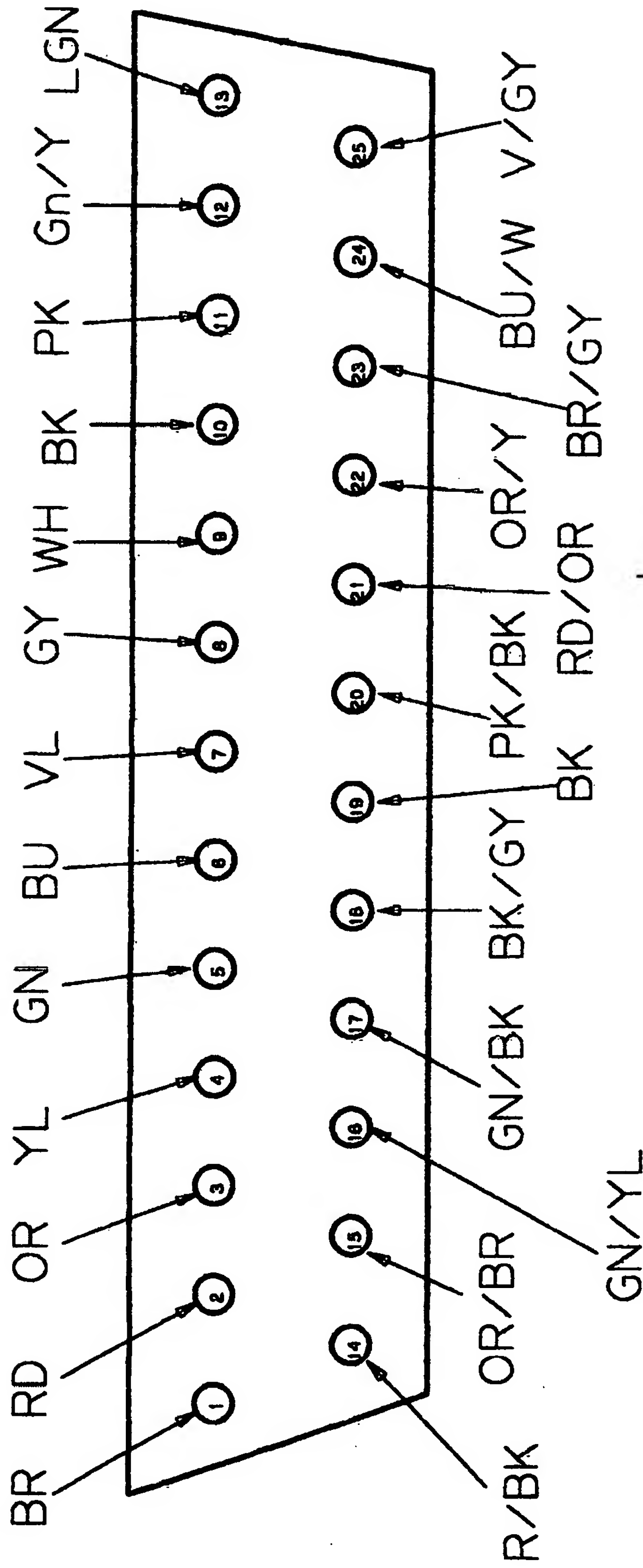
- Pin 1 = 10%
- Pin 2 = 20%
- Pin 3 = 30%
- Pin 4 = 40%
- Pin 5 = 50%
- Pin 6 = 60%
- Pin 7 = 70%
- Pin 8 = 80%
- Pin 9 = 90%
- Pin 10 = 100%

Refer to FIG. 7 for more detail

Pin 11 = Gnd & Shield

Designed Alan H. Gagan	Date 10/22/2004
Approved <i>[Signature]</i>	Project: Fluid Level
Drawn 0032008	FIG. 12

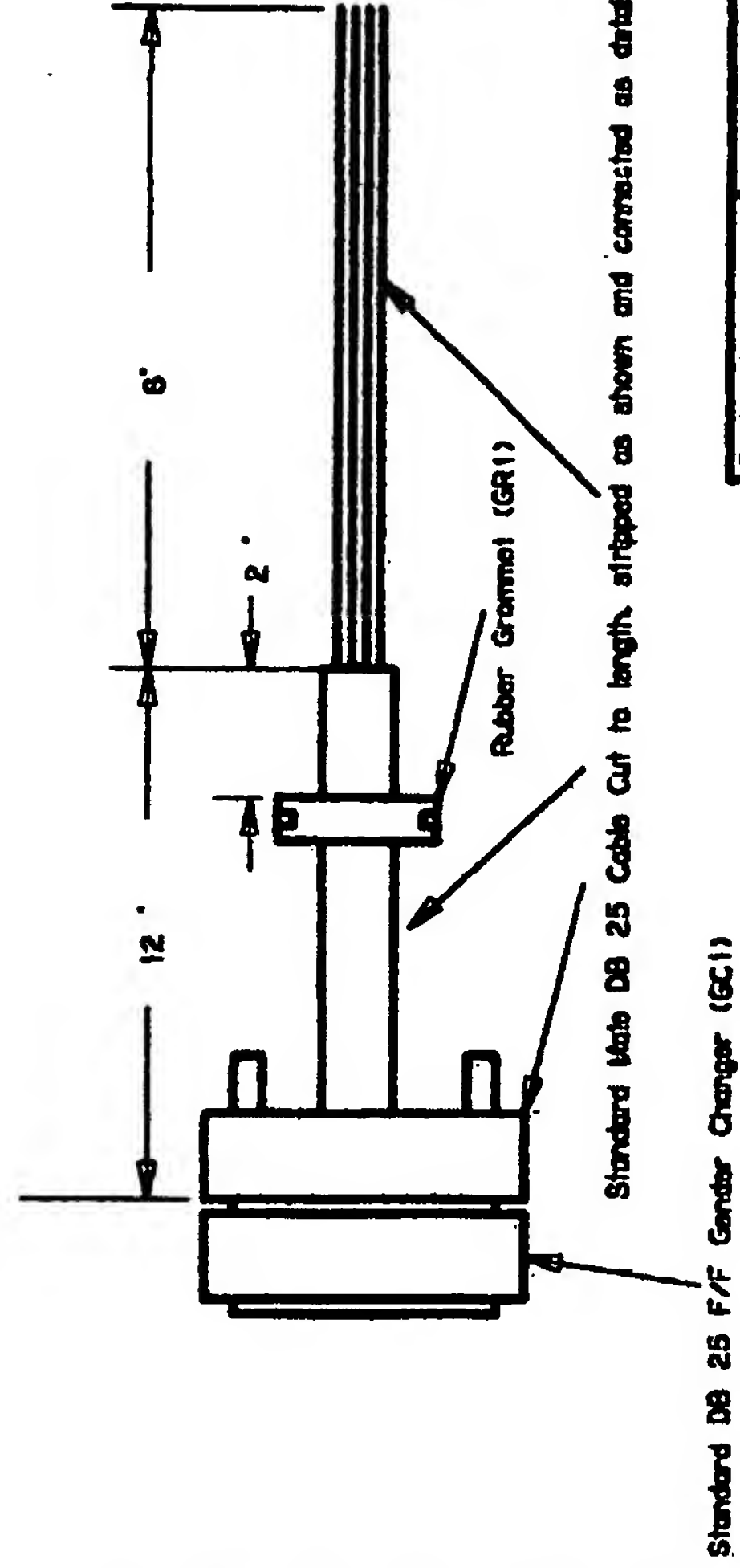
replacement



- Pin 1 = 10%
- Pin 2 = 20%
- Pin 3 = 30%
- Pin 4 = 40%
- Pin 5 = 50%
- Pin 6 = 60%
- Pin 7 = 70%
- Pin 8 = 80%
- Pin 9 = 90%
- Pin 10 = 100%

Refer to FIG. 7 for Electrical Connection Detail to J1

Pin 11 = Gnd 0%

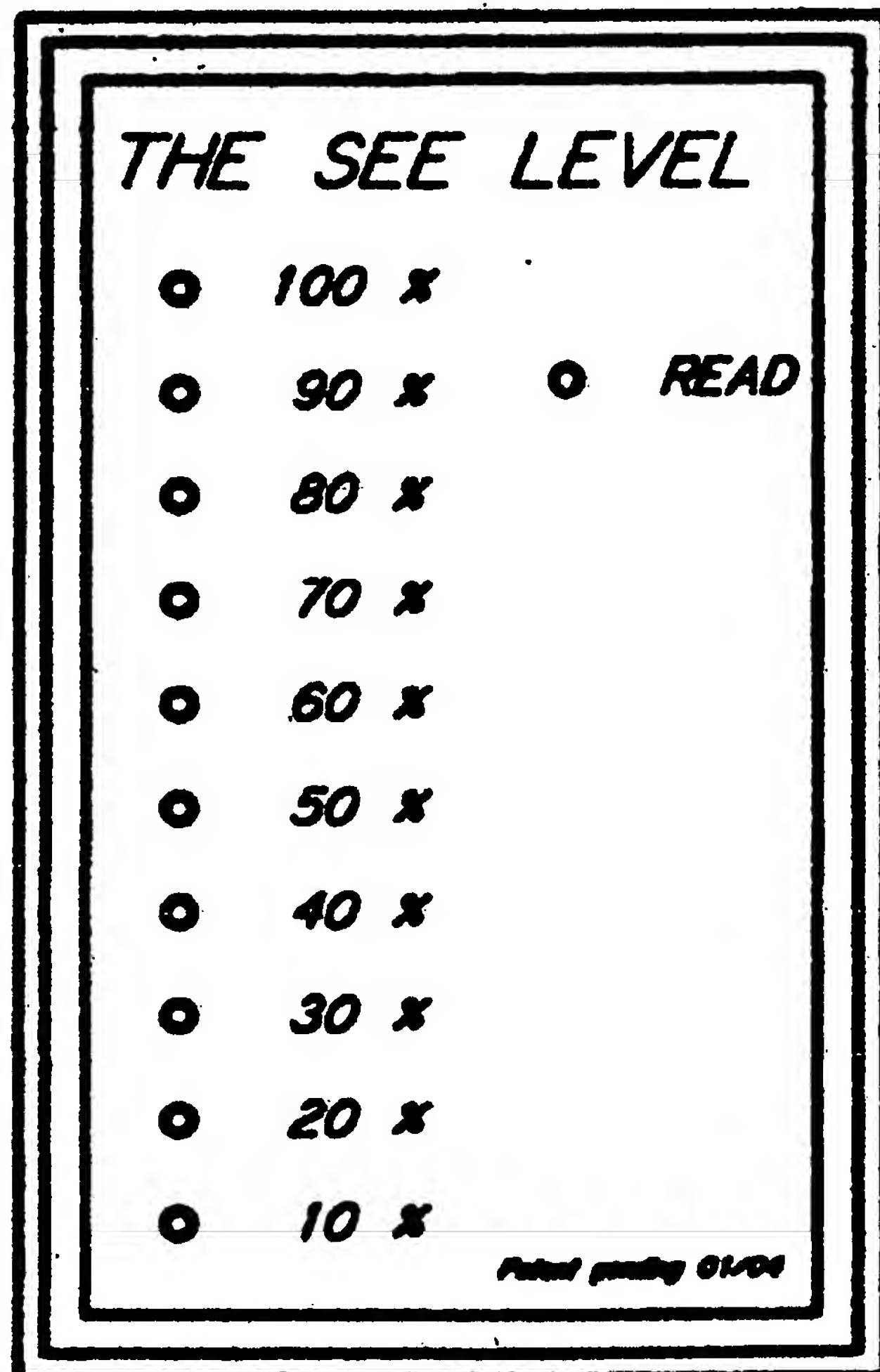


Designed Alan H. Grien	Date 10/22/2004
Approved <i>[Signature]</i>	Project: Fluid Level
Drawn: 00326613	FIG. 13

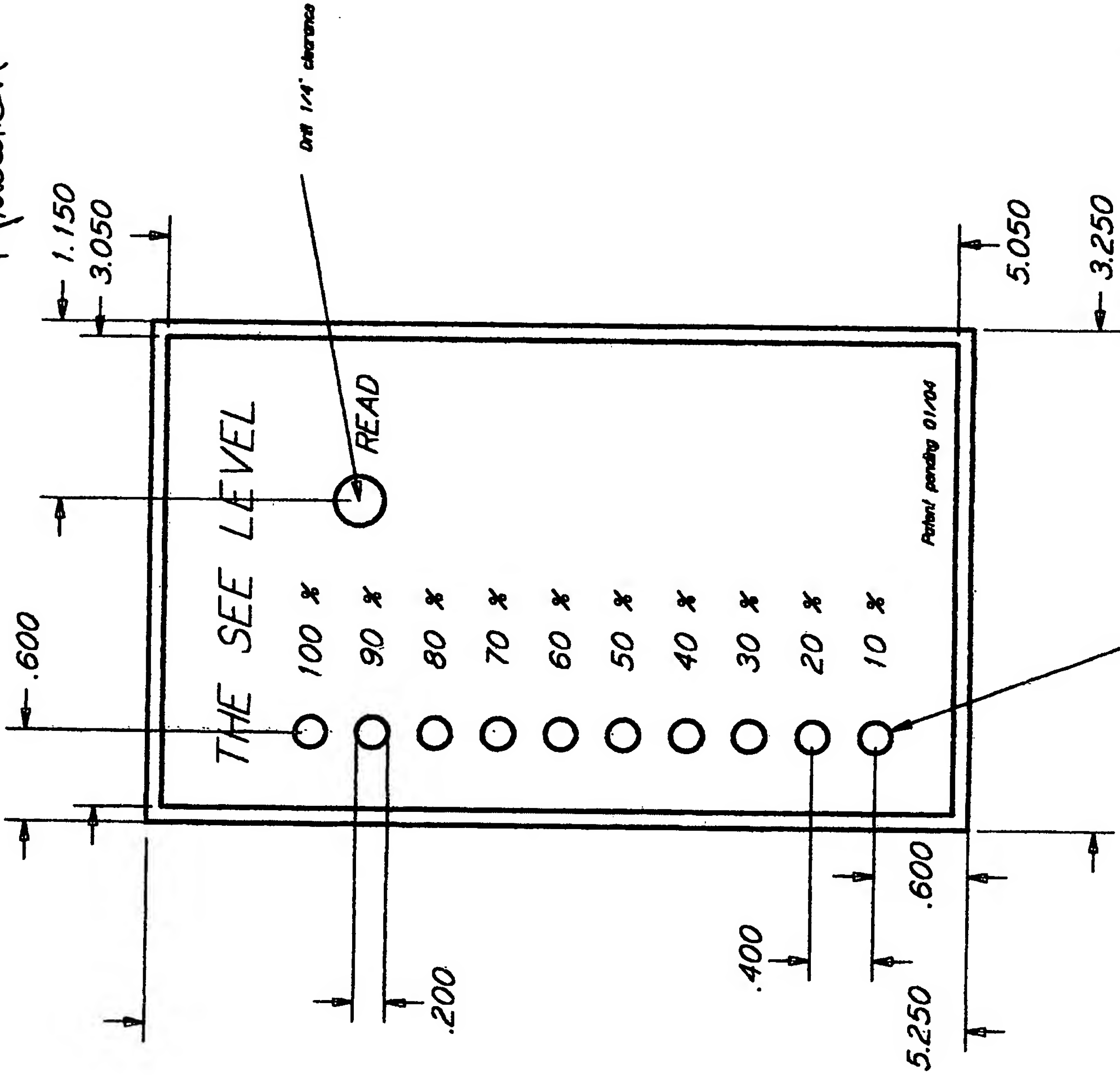
Replacement M

FIG. 14

Vinyl Front Panel as Printed



replacement

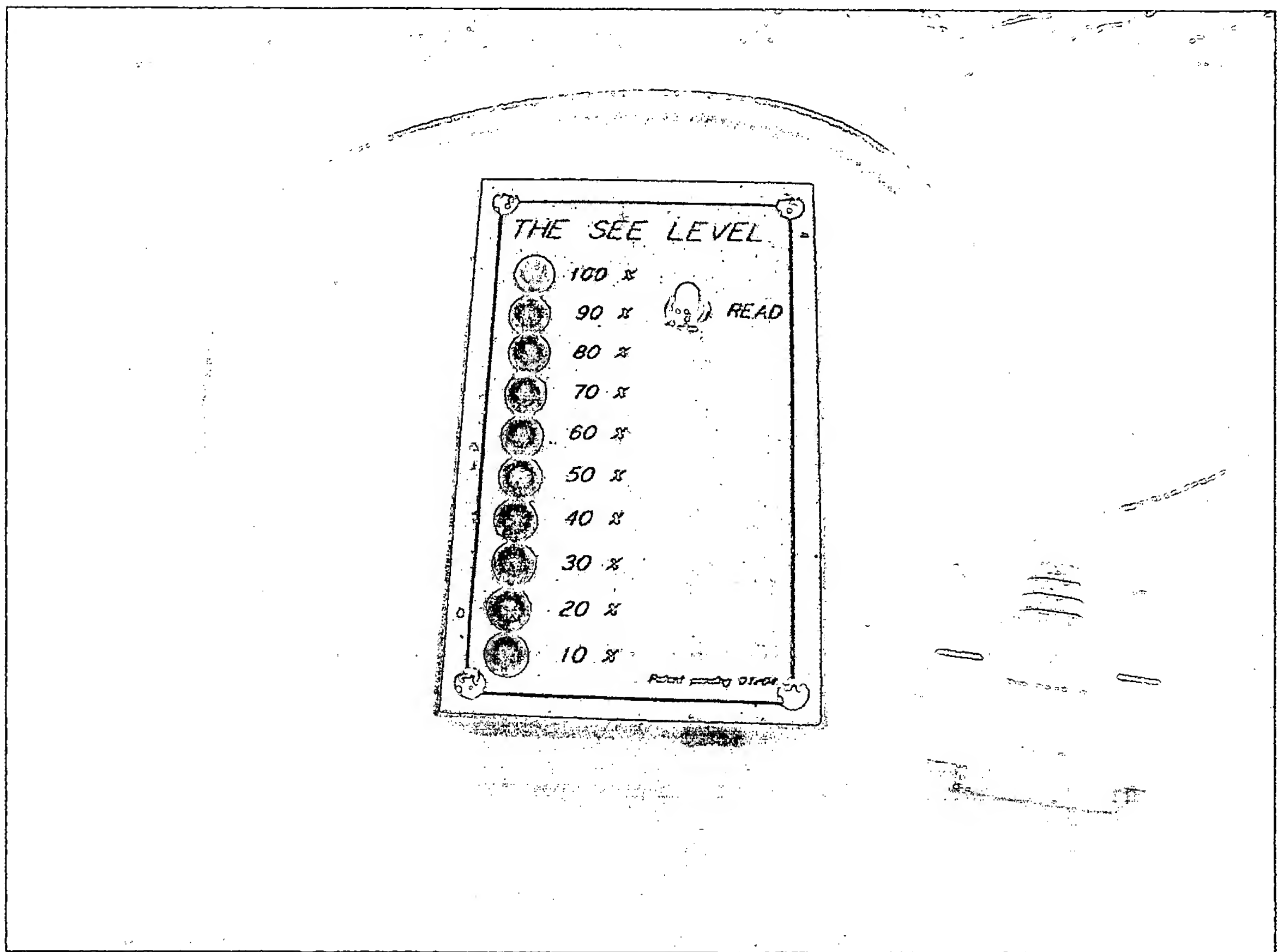


Designed Alan H. Green	Date: 11/11/2004
Approved 	Project: Fluid Level
DRW # 00920015	FIG. 15



The Electronics/Display Box Prototype  
FIG. 16

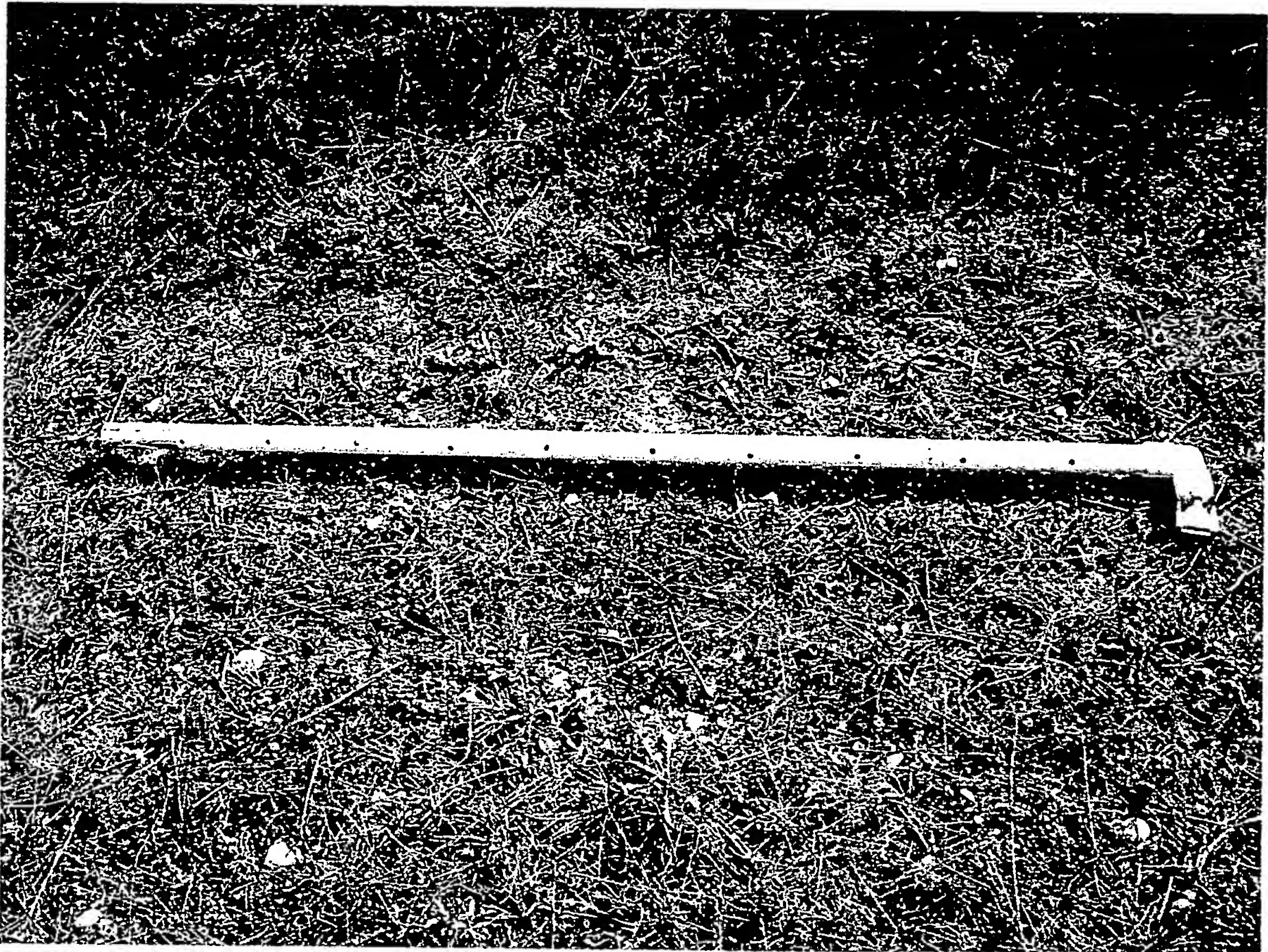
Replacement M.



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Replacement Mh

The Complete Probe Assembly (5 foot version) Prototype  
**FIG. 17**



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